

# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference <b>FP2241</b>	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. <b>PCT/SG 2004/000109</b>	International filing date ( <i>day/month/year</i> ) <b>26 April 2004 (26.04.2004)</b>	Priority Date ( <i>day/month/year</i> )
International Patent Classification (IPC) or national classification and IPC  <b>IPC<sup>8</sup>: G06F 12/14 (2006.01); G06F 13/12 (2006.01); G06F 13/00 (2006.01); G06F (2006.01); H04L 9/00 (2006.01)</b>		
Applicant <b>TREK 2000 INTERNATIONAL LTD</b>		

<p>1. This international preliminary examination report has been prepared by this International Preliminary Examination Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>  4  </u> sheets, including this cover sheet.</p> <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of _____ sheets.</p>
<p>3. This report contains indications relating to the following items:</p> <ul style="list-style-type: none"> <li>I.      <input checked="" type="checkbox"/> Basis of the opinion</li> <li>II.     <input type="checkbox"/> Priority</li> <li>III.    <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</li> <li>IV.    <input type="checkbox"/> Lack of unity of invention</li> <li>V.     <input checked="" type="checkbox"/> Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</li> <li>VI.    <input type="checkbox"/> Certain documents cited</li> <li>VII.   <input type="checkbox"/> Certain defects in the international application</li> <li>VIII. <input type="checkbox"/> Certain observations on the international application</li> </ul>

Date of submission of the demand  <div style="text-align: center;"><b>13 February 2006 (13.02.2006)</b></div>	Date of completion of this report  <div style="text-align: center;"><b>23 March 2006 (23.03.2006)</b></div>
Name and mailing address of the IPEA/AT <b>Austrian Patent Office          Dresdner Straße 87          A-1200 Vienna          Facsimile No. 1/53424/200</b>	Authorized officer  <div style="text-align: center;"><b>KÖGL C.</b></div> Telephone No. 1/53424/440

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SG 2004/000109

**I. Basis of the report**1. With regard to the **elements** of the international application:\*☒ the international application as originally filed☐ the description:

pages \_\_\_\_\_, as originally filed

pages \_\_\_\_\_, filed with the demand

pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

☐ the claims:

pages \_\_\_\_\_, as originally filed

pages \_\_\_\_\_, as amended (together with any statement) under Article 19

pages \_\_\_\_\_, filed with the demand

pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

☐ the drawings:

pages \_\_\_\_\_, as originally filed

pages \_\_\_\_\_, filed with the demand

pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

☐ the sequence listing part of the description:

pages \_\_\_\_\_, as originally filed

pages \_\_\_\_\_, filed with the demand

pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).☐ the language of publication of the international application (under Rule 48.3(b)).☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:☐ contained in the international application in printed form.☐ filed together with the international application in computer readable form.☐ furnished subsequently to this Authority in written form.☐ furnished subsequently to this Authority in computer readable form.☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.4. ☐ The amendments have resulted in the cancellation of:☐ the description, pages \_\_\_\_\_.☐ the claims, Nos. \_\_\_\_\_.☐ the drawings, sheets/fig \_\_\_\_\_.5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as „originally filed“ and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.  
PCT/SG 2004/000109

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement			
Novelty (N)	Claims	1-30	YES
	Claims	----	NO
Inventive step (IS)	Claims	1-30	YES
	Claims	----	NO
Industrial applicability (IA)	Claims	1-30	YES
	Claims	----	NO

### Citations and explanations (Rule 70.7)

We reference to your Demand for International Preliminary Examination dated on February 1<sup>st</sup>, 2006 and we hereby send you the International Preliminary Examination Report. In view of the application and in particular the subject matter of claims 1 to 30 it is considered that the present application is novel and involves an inventive step. The following documents are mentioned in the International Search Report; the numbering will be adhered to in the rest of the procedure:

**D1:** US 6 003 135  
**D2:** US 6 460 138 B1  
**D3:** US 2003/0217206 A1  
**D4:** US 5 917 913

Document **D1** discloses a portable memory device to communicate with a host computer device to enable one or more security operations to be performed by the modular device. The document **D1** is considered to represent the most relevant document. **D1** shows in Fig. 3A a modular device (Position 302) with a security module (Position 302a) in which the interface section of the application is equivalent to the communication interface

(Fig. 3A, Position 303). Position 611 (**D1**: Fig. 6) shows a processing device of the security module which is equivalent to the 'master control unit' in the present application. The non-volatile data storage device will be shown in **D1** as well (Column 19, Lines 39-40). The integrated chip (document **D1**: Column 19, Line 32) is an indication of an 'integrated circuit' described in **Claim 1** of the present application. **D1** shows different key operations (e.g. Column 21, Line 30 or Line 58), hash operation (Column 21, Line 35), digital signature (Column 21, Line 40), data encryption (Column 21, Line 52), one or more public keys (Column 21, Line 58) and a biometric module (Column 18, Line 18) as well. The present application comprises the follow features 'integrated circuit means for generating at least one key, the device being arranged, upon receiving a command from a host requesting data ...' which are not shown in **D1**. Therefore the present application teaches small but favourable improvements in respect of the prior art.

The cited publication **D2** describes a user authentication for portable electronic devices including a non-volatile memory (Fig.2, Position 122) allowing the user to gain access. **D2** does not show e.g. an integrated circuit or a host. **D2** describes a standard technology.

**Supplemental Box**

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: **Box V** (page 1)

The document **D3** refers to a portable memory device with a data connection to a host via a universal serial bus (USB). The user connects the portable device to a host platform. The portable device is connected to the host and the portable device undergoes an initialisation procedure. The host platform requests services from the portable device by sending request packets to the USB host controller. The USB host controller transmits packets through the USB port (= interface section) to the USB connector. **D3** does not use any key operation. Therefore **D3** describes a prior art as well. **D4** relates to a portable electronic authorization device and methods therefore. This Document shows a transaction request of a portable electronic authorization device. **D4** shows the general state of the art.

Even any combination of two documents of **D1, D2, D3 or D4** is not capable to question the inventive step of the present application.

Summarizing, the subject matter of **Claims 1-30** is novel over prior art and does involve an inventive step. The cited documents **D1-D4** show the general state of the art which is not considered to be of a particular relevance. The industrial applicability is obvious given.